575 Madison Ave. New York, NY 10022 212,940.8800 office (212) 940-8776 fax

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3/15/2005				053735-8	7566		
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Linda S. Chan				20093			
Phone				Fax			
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Inventor	:	Hartmut	Schön				
Title	:	Apparatu	is for the l	Provision of a	Block Flan	ige of a M	anhole Arperture of the
		Like, in P	Particular	for Fluidized	Bad React	ors	
Serial No.	:	PCT/EP9	9/08001				
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Serial No.: PCT/EP99/08001

Page 1 of 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor

Hartmut Schön

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Title

Apparatus for the Provision of a Block Flange of a Manhole

Arperture of the Like, in Particular for Fluidized Bad Reactors

Serial No.

PCT/EP99/08001

Confirmation No.

8924

Filed

October 27, 1999

March 15, 2005

By Facsimile: (571)273-0459

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor

:

Hartmut Schön

Title

Apparatus for the Provision of a Block Flange of a Manhole

Arperture of the Like, in Particular for Fluidized Bad Reactors

Serial No.

PCT/EP99/08001

Confirmation No.

8924

Filed

October 27, 1999

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shown below as

Express Mail Receipt No. EV 332246025 US

Name: Ralisa Sobhay

Signature:___

Date: October 27, 2004

October 27, 2004

Mail Stop: PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Petition Pursuant to 37 CFR 1.137(b)to Revive PCT Application for Filing of Continuation Application

To the Commissioner for Patents:

The above-referenced PCT application was filed on October 27, 1999 claiming priority to German application number 198 51 423.9 filed on November 7, 1998. The National Phase application was due to be filed by May 7, 2001. Applicant filed a continuation application on May 4, 2001 claiming priority to the current PCT application (Application Serial No. 09/849,678. However, the sheet of claims was unintentionally omitted from the filed continuation application. Thus, Applicant hereby respectfully petitions the commissioner to revive the current application for entry of the enclosed complete continuation application.

Applicant hereby submits that the entire delay in filing the complete continuation application from the due date for entering the National Stage until the filing of a grantable petition pursuant to 37 C.F.R. § 1.137(b) was unintentional.

Pursuant to 37 C.F.R. § 1.137(b)(1), enclosed herewith is a complete continuation application.

The Commissioner is hereby authorized to charge the fee required by 37 C.F.R. § 1.137(b)(2) and as set forth in 37 C.F.R. § 1.17(m) to Deposit Account No. 50-1290. It is believed that no other fees are due with this petition. However, if any other fees are a due with this paper or the enclosed amendment, the Commissioner is hereby authorized to charge such fee(s) to Deposit Account No. 50-1290. The Commissioner is also authorized to charge any fees due with the enclosed continuation application to Deposit Account No. 50-1290.

Please direct any inquiries regarding this petition to the Applicant's undersigned attorney, who may be reached directly by telephone at (212)940-8712.

Respectfully submitted,

Linda S. Chan Reg. No. 42,400

Attorney Docket No.: 3167/MEINKE (053735-87566)

Customer Number: 026304

Phone: (212)940-8800

Fax: (212)940-8776

1-3

Attorney Docket No.: 316 iEINKE (053735-87566)

PTO/SB/13/PCT (06-04)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid QMB control number.

REQUEST FOR FILING A CONTINUATION OR DIVISION OF AN INTERNATIONAL APPLICATION

DOCKET NUMBER	ANTICIPATION CLASSIFICATION OF THIS APPLICATION		PRIOR APPLICATION EXAMINER	ART UNIT
3167/MEINKE (053735-87566)	CLASS	SUBCLASS		
				

Address to: Commissioner for Patents

Express Mail Label No.: EV 332246025 US

P.O. Box 1450 Alexandria, VA 22313-1450

This is a request for filing a continuation divisional application under 37 CFR 1,53(b) of pending prior international application Number PCT PCT/FP99/08001 filed on Oct. 27, 1999 entitled Apparatus for the Provision of a Block Flange of a Manhole Ameriture of the Like, in Particular for Fluidized Bad Reactors which designated the United States.

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) R	ATE	(5) CALCULATIONS
	TOTAL CLAIMS (37 CFR 1.16(c))	3 - 20 =		x \$	=	s 0
	INDEPENDENT CLAIMS (37 CFR 1.16(b))	1 -3=		×\$	=	0
	MULTIPLE DEPENDENT CLA	IMS (if applicable) (37 CFR 1,	16(d))	x \$	=	
				BASIC FEE (37 CFR 1.16)	a))	790.00
				above Calcul		790.00
}		Reductio	n by 50% for filing small ent	ity (Note 37 Ci	FR 1.27)	
					Total =	790.00

1.	4	Enclosed are the specification, claims and drawing(s). 7 Pages of Specification, 2 Pages of Drawings - Figures
2.		Applicant claims small entity status. See 37 CFR 1.27.
3.		The Director is hereby authorized to charge any fees which may be required under 37 CFR 1.16 and 1.17, or credit any overpayment of Deposit Account No. 50-1290 . A duplicate copy of this sheet is enclosed.
4.		A check in the amount of \$ is enclosed.
5.		Payment by credit card. Form PTO-2038 is attached.
6.		Application Data Sheet is enclosed. See 37 CFR 1.76.
7.		If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional of prior PCT application No.: PCT/EP99/08001 filed 10/27/1999

[Page 1 of 2]

This collection of Information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Approved for use through 07/31/2006, OMB 0851-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. REQUEST FOR FILING A CONTINUING APPLICATION OF AN INTERNATIONAL **APPLICATION**

7,		A declaration under CFR 1.63 is enclosed.	
8.		Priority of foreign application number 198 51 423.9 , filed on Nov. 7, in Germany is claimed under 35 U.S.C. 119(a)-(d).	1998
		The certified copy is enclosed.	
9,		A preliminary amendment is enclosed.	
10.		Also enclosed:	
		all future correspondence to: (May only be completed by applicant, or attorney or agent of reco	rd).
_	uston	ner Number: 026304	
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WA	RNING	5: Information on this form may become public. Credit card information should not	
be	includ	ed on this form. Provide credit card information and authorization on PTO-2038.	
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	_		10/27/2004
	6	Signature	Date
		Linda C. Oban	
		Linda S. Chan Typed or printed name	42,400
		ypad or printed name	Registration Number, if applicable
			(212)940-8800
			Telephone Number
		Inventor(s)/Applicant(s)	
		Assignee of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).	
		Attorney or agent of record	
		Filed under 37 CFR 1.34 Registration number if acting under 37 CFR 1.34 42,400	
NOT Subi	TE: Sigi mit mul	natures of all the inventors or assignees of record of the entire interest or their representative(s tiple forms if more than one signature is required, see below.	s) are required.
V	*Tota	1	

[Page 2 of 2]

"Apparatus for the provision of a block flange of a manhole aperture or the like, in particular for fluidized bed reactors"

The invention relates to an apparatus for the provision of a block flange of a manhole aperture or the like, in particular for fluidized bed reactors for the oxychlorination of ethylene, oxygen and HCl, having a wall flange fixed in the reactor wall.

In what is known as oxychlorination, ethylene, oxygen and HCl are reacted in a fluidized bed reactor (oxyreactor) over a copper-containing catalyst to give 1,2-dichloroethane and water. In operation, and when the plant is shut down, catalyst deposits may occur in any dead spaces within the reactor. The presence of HCl results in the formation of hydrochloric acid when the temperature falls below the dew point, and hence causes severe corrosion. Particularly at risk here are dead spaces in the shell region, such as any manholes and measuring ports. Attempts have been made to remedy this disadvantage by, for example, providing heated flushing lines at all measuring ports, in order also to

prevent adverse effects on measurements and temperatures falling below the dew point.

With manhole designs, it is known to equip the lids of said manholes internally with an additional displacement body which is so designed as to produce the smoothest possible flush transition to the inner surface of the reactor shell.

It is an object of the invention to provide a solution whereby all other auxiliary measures can be dispensed with and the expense associated therewith can be eliminated without the functionality of the system suffering as a result and without undesirable deposits being formed in these areas.

This object is achieved, according to the invention, with an apparatus of the type described initially in that the flange surface pointing inward and downward in the direction of gravity is of beveled design, at least in some areas.

The invention entails a number of advantages, for example in that possible dead spaces in which catalyst deposits may be formed are reduced and all heated flushing lines that are employed in the conventional solutions, with filter

- 3 -

stations, flowmeters, condensate collectors, mountings and the like, are eliminated.

In an embodiment, it is envisaged that the surface bevel is so great, at least in its area that is lowest in the direction of gravity, that deposition of catalyst granules or the like is prevented.

It is particularly advantageous if, as the invention likewise envisages, the bevel of the surface is designed to increase, beginning from the horizontal median plane in the inner edge region toward the vertical center of the flange ring.

With this design, a smooth, homogeneous, funnel-like slide is formed, directed toward the interior of the reactor, so that, for example, when the reactor is switched off and the fluidized bed sinks, the deposition of catalyst material or the like is reliably prevented.

Further features, details and advantages of the invention are apparent from the description that follows and from reference to the drawing, in which:

- Fig. 1 shows a simplified perspective view of a block flange according to the invention,
- Fig. 2 shows a simplified sectional view of a manhole, and
- Fig. 3 shows a simplified sectional view of a block flange approximately in accordance with Fig. 1.

Referring to Fig. 1, a block flange generally designated 1 according to the invention is welded into a reactor wall 2. The block flange has a certain cylindrical extent and has a passage aperture 3, for example for a measuring instrument, a probe or the like.

In its inward-pointing area, designated 2a in Fig. 2, the flange inner surface 4 is beveled, the bevel being designated 5 in Fig. 1. This beveled surface 5 begins approximately at the center horizontal line 6 of the flange 1, extends as far as the horizontal center, designated 7, of the flange and from there onward to the vertical center 6, so that a form of slide results. Material falling thereon is automatically rejected as a result of gravity.

- 5 **-**

Fig. 2 shows a manhole design, and here again a corresponding flange design is shown, the manhole being closed by a cover designated in this case 8.

Fig. 3 shows a block flange 1 of this type in section.

The examples of embodiment of the invention described can of course be modified in a great many respects without departing from the basic concept. Thus, the flange 1 or 1a can, in particular, be welded in flush with the inner wall surface of the reactor wall 2, the flange or flange bore 3 can be arranged at a slightly downward-pointing angle to assist the sliding-off of material falling thereon, and so on.

- 6 -

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Patent claims:

- 1. An apparatus for the provision of a block flange of a manhole aperture or the like, in particular for fluidized bed reactors for the oxychlorination of ethylene, oxygen and HCl, having a wall flange fixed in the reactor wall, wherein the flange surface (5) pointing inward and downward in the direction of gravity is of beveled design, at least in some areas.
- 2. The apparatus as claimed in claim 1, wherein the bevel of the surface (5) is so great, at least in its area that is lowest in the direction of gravity, that deposition of catalyst granules or the like is prevented.
- 3 The apparatus as claimed in claim 1 or 2, wherein the bevel of the surface (5) is designed to increase, beginning from the horizontal median plane (6) in the inner edge region toward the vertical center (7) of the flange ring.

- 7 -

Abstract:

An apparatus for the provision of a block flange of a manhole aperture or the like, in particular for fluidized bed reactors for the oxychlorination of ethylene, oxygen and HCl, having a wall flange fixed in the reactor wall, is intended to provide a solution whereby all other auxiliary measures can be dispensed with and the expense associated therewith can be eliminated without the functionality of the system suffering as a result and without undesirable deposits being formed in these areas.

This is achieved in that the flange surface (5) pointing inward and downward in the direction of gravity is of beveled design, at least in some areas.

Drawing for publication herewith: Fig. 1.

-1/2-

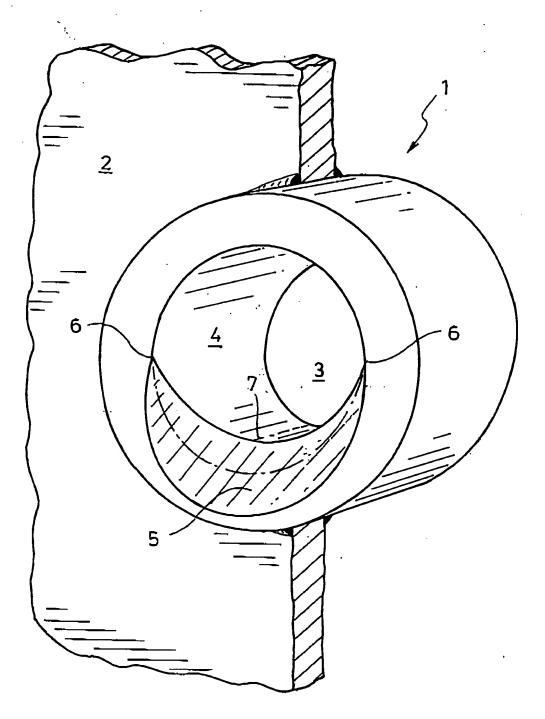


FIG.1

-2/2-

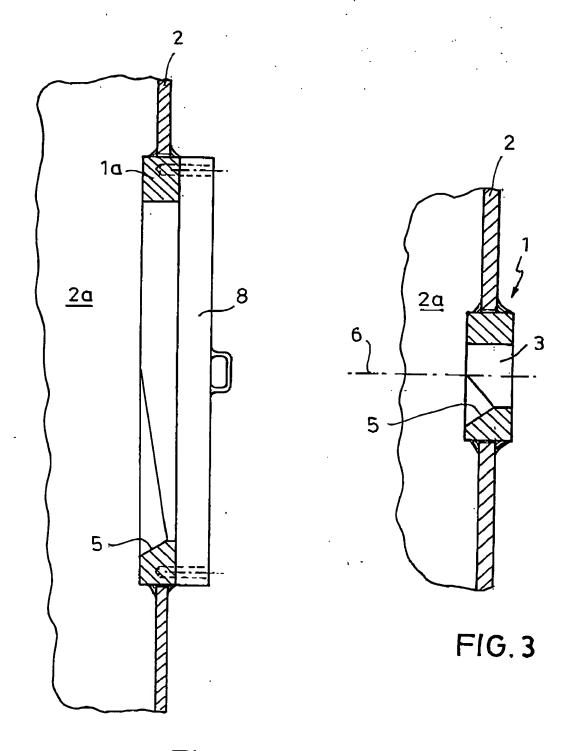


FIG.2

Rosenman & Colin LLP Docket No.: 3167/Mcinke Client/Associate Docket No.: 257IA/16242

Declaration and Power of Attorney for Patent Application Erklärung Für Patentanmeldungen Mit Vollmacht German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:	As a below named inventor, I hereby declare that:
dass mein Wohnsttz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,	My residence, post office address and citizenship are as stated below next to my name.
dass ich, nach bestern Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterbinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:
	APPARATUS FOR THE PROVISION OF A BLOCK FLANGE OF A MANHOLE APERTURB OR THE LIKE, IN PARTICULAR FOR FLUIDIZED BED REACTORS
deren Beschreibung (zubeffendes ankreuzen)	
hier beigefügt ist.	the specification of which (check one)
amunter der Anmeldungsseriennummer eingereicht wurde und sun	is attached hereto.
abgeändert wurde (falls tateächlich abgeändert).	was filed on
Ich bestätige hiermit, dass ich den Inhalt der obigen Patentammeldung einschliesslich der Ansprüche durchge- schen und verstanden habe, die eventuell durch einen	(if spplicable)
Zusatzantrag wie oben erwähnt abgeändert wurde.	I hereby state that I have reviewed and understand the contents of the above identified specification, including the
Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch,	claims, as amended by any amendment referred to above.
Paragraph 1.56(a) von Wichtigkeit sind, an	I acknowledge the duty to disclose information which is

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oder

beansprucht wird.

Ich beanspruche hiermit ausländische Prioritätsvorteile

gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanzueldungen tür ein Patent oder eine Erfinders-

urkunde, und habe auch alle Auslandsammeldungen für ein

gekennzeichnet, die ein Aumeldedatum haben, das vor dem

Anmeldedamm der Anmeldung liegt, für die Princität

Erfindersurkunde

nachstchend

which priority is claimed.

material to the examination of this application in accordance

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for parent or

inventor's certificate listed below and have also identified

below any foreign application for patent or inventor's certificate baving a filing data before that of the application on

with Title 37, Code of Federal Regulations, 1.56(a).

(Application Social No.)

German Language Declaration

Prior foreign applications

<u>Pric</u>	rity	Cla	ime	<u>əd</u>

Priorität beausprucht			Priority C	laimed
PCT/EP99/08001	PCT/EP	27/10/99 (Day/Month/Year Filed) (Tag/Monat/Jahr eingereicht)	[X]	[]
(Number)	(Country)		Yes	No
(Nummer)	(Land)		Ja	Ncin
198 51 423.9	Germany	07/11/98 (Day/Month/Year Filed) (Tag/Monat/Juhr eingereicht)	[X]	[]
(Number)	(Country)		Yes	No
(Nummer)	(Land)		Ja	Nein
(Number) (Nummer)	(Country) (Land)	(Day/Month/Year Filed) (Tag/Monat/Jahr eingereicht)	[] Yes Ja	[] No Nein

ich beanspruche hiermit gemäss Absatz 35 der Zivilprozossordnung der Vereinigten Staaten, Paragraph 120, den Vorzug aller unten aufgeführten Anmeldungen und falls der Gegenstand aus jedem Anspruch dieser Anmeldung nicht in einer früheren amerikanischen Patentanmeldung laut dem ersten Paragraphen des Absatzes 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 112 offenbart ist, erkenne ich gemiss Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) meine Pflicht zur Offenbarung von Informationen an, die zwischen dem Anmeldedatum der früheren Anmeldung und dem nationalen oder PCT internationalen Anmeldedatum dieser Anmeldung bekanut geworden sind.

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Scriet No.) (Anmeldeseriennummer)	(Anneldedatum)
(Application Serial No.)	(Filing Date)
(Anneldeseriennummer)	(Anmeldedatum)

(Elling Date)

(patentiert, anhangig, (patented, pending, abandoned) aufgegeben) (Status) (Status) (patentiert, ambingig, (patented, pending,

(Status)

abandoned)

Ich erkläre hiermit, dass alle von mir in der vorliegenden Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und dass ich diese eidesstauliche Erklärung in Kanntnis dessen abgobo, dass wissentlich und vorsätzlich falsche Angabon gemäss Paragraph 1001, Absatz 18 der Zivilprozessordnung der Vereinigten Staaten von Amerika mit Geldstrafe belegt und/oder Gelängnis bestraft werden koennen, und dass derartig wissentlich und vorsätzlich falsche Anguben die Gültigkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

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2

eufgegoben)

Mar-15-2005 11:54am

Telefongespräche bitte richten an:

German Language Declaration

Shahan Islam, Reg. No. 32,507

Direct Telephone Calls to:

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Shahan Islam (212)	940-8546	
ROSENMAN 575 Mad New York, New	spondence to: (& COLIN LLP ison Avenue 'York 10022-2585 psenman.com	
Unterschrift des Erfinders Datum April 24, 2001	Inventor's Signature Date	
Voller Name des einzigen oder ursprünglichen Erfinders:	Full name of first or sole inventor	
Wohnsitz Bruden - Grimus - 54. 20 Altenhäferung 12 61440 61449 Oberursel	Residence	
Staatsangehörigkeit	Citizenship	
Germany/Dentschland Postanschrift	Post Office Address	
Unterschrift des Erfinders Datum	Inventor's Signature Date	e
Voller Name des zweiten Miterfinders:	Full name of second joint inventor	
Wohnsitz	Residence	
Stuatsungehörigkeit	Citizenship	
Postanschrift	Post Office Address	

41109579.01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor

Hartmut Schön

Title

Apparatus for the Provision of a Block Flange of a Manhole Apperture of the Like, in Particular for Fluidized Bad Reactors

CONTINUATION OF INTERNATIONAL APPLICATION

Serial No.

PCT/EP99/08001

Filed

October 27, 1999

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail, postage prepaid, in an envelope addressed to: Cammissioner for Patents, P.O. Box 1450. Alexandria, VA 22313-1450 pursuant to 37 CFR 1.10 on the date shown below as

Express Mail Receipt No. EV 332246025 US

Name: Ralisa Subhaw

Signature:

Date: October 27, 2004

October 27, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Preliminary Amendment

To the Commissioner for Patents:

Prior to examination please amend the application as follows:

In the Specification

At page 1, paragraph 1, add the following before line 1:

This application is the National Stage of International Application No. PCT/EP99/08001, filed October 27, 1999, which claims priority to German application number 198 51 423.9 filed on November 7, 1998, and which is herein incorporated by reference.

In the Claims

Please amend the claims as follows:

- 1. (original) An apparatus for the provision of a block flange of a manhole aperture or the like, in particular for fluidized bed reactors for the oxychlorination of ethylene, oxygen and HCl, having a wall flange fixed in the reactor wall, wherein the flange surface (5) pointing inward and downward in the direction of gravity is of beveled design, at least in some areas.
- 2. (original) The apparatus as claimed in claim 1, wherein the bevel of the surface (5) is so great, at least in its area that is lowest in the direction of gravity, that deposition of catalyst granules or the like is prevented.
- 3. (currently amended) The apparatus as claimed in claim 1 [[or 2]], wherein the bevel of the surface (5) is designed to increase, beginning from the horizontal median plane (6) in the inner edge region toward the vertical center (7) of the flange ring.

REMARKS

The current preliminary amendment is submitted in order to claim the benefit of the prior application.

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Account 50-1290.

Respectfully submitted,

Linda S. Chan / Reg. No. 42,400

Attorney Docket No.: 3167/MEINKE (053735-87566)

Customer Number: **026304** Phone: (212)940-8800 Fax: (212)940-8776